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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/524,359	08/09/2005	Benoit Chabot	2891-1-001PCT/US	6135
23565 VI ALIDED &	23565 7590 09/26/2007 KLAUBER & JACKSON		EXAMINER	
411 HACKENSACK AVENUE			· SHIN, DANA H	
HACKENSACK, NJ 07601			ART UNIT	PAPER NUMBER
			1635	
			MAIL DATE	DELIVERY MODE
		•	09/26/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)				
	10/524,359	CHABOT ET AL.				
Office Action Summary	Examiner	Art Unit				
	Dana Shin	1635				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	I. hely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status	•					
1) Responsive to communication(s) filed on 14 Fe	ebruary 2005.					
2a) This action is FINAL . 2b) This						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims		٠.				
4)	vn from consideration.	·				
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	•					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)	. ·					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:					

Continuation of Disposition of Claims: Claims subject to restriction and/or election requirement are 1-7,28,85-87,104,107-109,116,117,123,130,131 and 138-148.

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-7 and 28, drawn to a method of increasing splice site selection by hybridizing an oligonucleotide-protein conjugate to a target pre-mRNA molecule in a cell.

Group II, claim(s) 1-7 and 28, drawn to a method of repressing splice site selection.

Group III, claim(s) 85-87, 138, and 148, drawn to an oligonucleotide for modulating splice site.

Group IV, claim(s) 104 and 140, drawn to a method of creating an alternate form of mRNA.

Group V, claim(s) 107-108, 141-142, and 147, drawn to a method of inhibiting mRNA expression or neuronal differentiation comprising administering an oligonucleotide for modulating splice site.

Group VI, claim(s) 109, 116-117, 123, 130-131, and 144-146, drawn to methods of treating or preventing diseases.

Upon election of a single inventive group, applicant is further required to elect a single disclosed oligonucleotide sequence from SEQ ID NOs:1-14, 18-33. See below for reasons.

The inventions listed as Groups I-VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

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The inventions of groups I-VI are found to have no special technical features that define a contribution over the prior art of Astriab-Fisher et al. (*Pharmaceutical Research*, June 2002, 19:744-754). See citation. The special technical feature of the first claimed invention is a method of modulating splice site selection by hybridizing an oligonucleotide-protein conjugate to a target pre-mRNA molecule in a cell.

Astriab-Fisher et al. teach that oligonucleotides are known to alter RNA splice site selection and that such oligonucleotides can be more effectively delivered via conjugation to cell-penetrating peptides (pages 744-753). They teach that the peptide conjugation does not interfere with the oligonucleotide function of modulating splice site selection, but increases cellular uptake (page 753). Therefore, applicants' invention does not contribute special technical features when viewed over the teachings of Astriab-Fisher et al. Accordingly, the inventions of groups I-VI do not have a single inventive concept and so lack unity of invention, thus restriction for examination purposes as indicated is proper.

According to the guidelines in Section (f)(i)(a) of Annex B of the PCT Administrative Instructions, the special technical feature as defined by PCT Rule 13.2 shall be considered to be met when all the alternatives of a Markush-group are of similar nature. For chemical alternatives, such as the claimed oligonucleotide sequences, the Marksuh group shall be regarded as being of similar nature when

- (A) all alternatives have a common property or activity and
- (B)(1) a common structure is present, i.e, a significant structure is shared by all of the alternatives or

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(B)(2) in cases where the common structure cannot be the unifying criteria, all alternatives belong to an art recognized class of compounds in the art to which the invention pertains.

The instant oligonucleotide sequences are considered to be each separate invention for the following reasons:

As described above, the oligonucleotide sequences do not meet the criteria of (A), common property or activity and (B)(1), common structure. Although all oligonucleotide sequences comprise nucleotides, each oligonucleotide sequence is targeted to a unique target sequence that does not overlap with another. Each member of the class cannot be substituted one for the other, with the expectation that the same intended result would be achieved. Further, the oligonucleotide sequences do not meet the criteria of (B)(1), as they do not share, one with another, a common core structure. Accordingly, unity of invention among the oligonucleotide sequences is lacking and each agent claimed is considered to constitute a special technical feature.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

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Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Applicant is advised to elect a single inventive group and a single oligonucleotide sequence.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dana Shin whose telephone number is 571-272-8008. The examiner can normally be reached on Monday through Friday, from 8am-4:30pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Douglas Schultz can be reached on 571-272-0763. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dana Shin Examiner Art Unit 1635

> J. E. Angell/ **Primary Examiner** Art Unit 1635